

## ABSTRACT

Genes encoding novel proteins named AID (Activation-Induced cytidine Deaminase), that are structurally related to APOBEC-1, an RNA editing enzyme, and have a cytidine deaminase activity similar to APOBEC-1, have been found by preparing cDNA libraries from  
5 mouse B cell clone CH12F3-2 (which undergoes class switch recombination from IgM to IgA at an extremely high rate after activation of the cells by stimulation with cytokines), with and without stimulation with cytokines, and performing subtraction cloning using the libraries.